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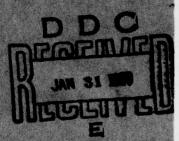


METEOROLOGICAL DATA REPORT

19304 D GSRS Missile No. 1063 Round No. V-67 29 August 1979

by

White Sands Meteorological Team



110, FILE 600

ATMOSPHERIC SCIENCES LABORATORY WHITE SANDS MISSILE RANGE, NEW MEXICO

ECOM

UNITED STATES ARMY ELECTRONICS COMMAND

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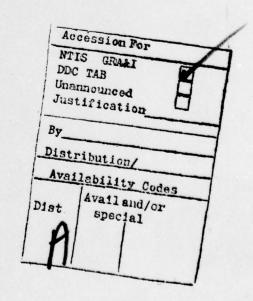
SECURITY CLASSIFICATION OF THIS PAGE When Date Entered) KEAD INSTRUCTIONS REPORT DOCUMENTATION PAGE BEFORE COMPLETING FORM REPORT NUMBER GOVE SECESSION AS THE CHIENE'S AT AT CON MILEN DR 1059 YOU OF BUREAT A PURE CONTRACT 19304 D GSRS Missile Number 1663, 6 PERICEVIN , ORG. REPORT NOWHER Round Number V-6: 29 August CONTRACT OF GRANT AL MELTER 16 White Sands Meteorological Team DA Task 1P6657020127 PERFORMING ORGANICATION NAME AND AUGUES CONTROLLING OFFICE NAME AND ADDRESS US Army Electronics Research & Development Comd Atmospheric Sciences Laboratory White Sands Missile Range, New Mexico 88002 19 14 MONE ORING AGENCY NAME & ADDRESS, If different from Controlling Office: 15 SECURITY CLASS, (of this report) US Army Electroncis Research & Development Comd. UNCLASSIFIED 154, DECLASSIFICATION DOWNGRADING IS DISTINBUTION STATEMENT for inte Ken Approved for public release; distribution unlimited. ERADCOM/ASL-DR-1058 19 WEY WORLDS (Continue on reverse and it necessary and litentity by block numbers 1. Ballistics 2. Meteorology 3. Wind 20 AHSTRACT (Confirme as powered your If necessary and identify by block number. Meteorological data gathered for the launching of 19304 D GSRS, Missile NR. 1963, Round Number V-67, are presented in tabular form. DD TORM 1473 LOTTION OF THEY 65 IS OUSOLETTE

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INTRODUCTION

19304D GSRS , Missile Number 1063 , Round Number V-67 , was launched from LC-33 , White Sands Missile Range (WSMR), New Mexico, at 1100 MDT, 29 August 1979 . The scheduled launch time was 1100 MDT.

DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team, Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

1. Observations

a. Surface

- (1) Standard surface observations to include pressure, temperature (°C), relative humidity, dew point (°C), density (gm/m^3) , wind direction and speed, and cloud cover were made at the LC-33 Met Site at T-0 minutes.
- (2) Anemometer data were provided from existing pole-mounted and tower-mounted anemometers at LC-33. Monitor of wind speed and direction from one anemometer was also provided in the launch control room.
 - b. Upper Air
- (1) Low level wind data were obtained from RAPTS T-9 pibal observation at:

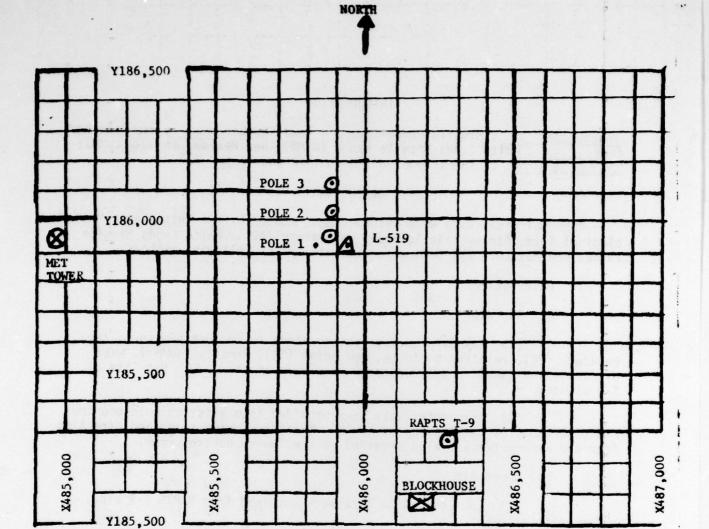
SITE AND ALTITUDE

SMR 2400 Meters

(2) Air structure data (rawinsonde) were collected at the following Met Sites. Data were collected from surface to 101,500 feet in 500-feet increments.

SITE AND TIME

SMR 1000 MST



- MET TOWER 4 Bendix Model T-20 Anemometers at 12 ft, 62 ft, 102 ft, and 202 ft with E/A recorders.
- 2. POLE ANEMOMETER Bendix Model T-120 with E/A recorders.
 - (a) Pole #1 38.7 ft
 - (b) Pole #2 53.0 ft
 - (c) Pole #3 83.6 ft
- 3. RAPTS T-9 Radar Automatic Pilot-Balloon Tracking System T-9 Radar.

TABLE 1. Surface Observations Taken at 1100 MDT, 29 August 1979, at LC-33, 19304D GSRS, Missile Number 1063, Round Number V-67.

ELEVATION	3,977.30	FT/MSL
PRESSURE	877.7	MBS
TEMPERATURE	27.0	°c
RELATIVE HUMIDITY	39	%
DEW POINT	11.8	°C
DENSITY	1,011	GM/M ³
WIND SPEED	01	МРН
WIND DIRECTION	310	DEGREES
CLOUD COVER	1	Cu
CLOUD COVER	.2	Ci

TABLE 2. LC-33 FIXED POLE ANEMOMETER-MEASURED WINDS

	POLE #1			POLE #2		POLE #3										
T-TIME SEC	DIR	SPEED MPH	T-TIME SEC	DIR DEG	SPEED MPH	T-TIME SEC	DIR	SPEED								
-30	М	5.0	-30	003	2.0	-30	008	7.0								
-20	М	4.0	-20	352	3.0	-20	005	5.0								
-10	М	4.0	-10	335	3.0	-10	346	4.0								
0.0	М	4.0	0.0	357	2.0	0.0	321	6.0								
+10	М	4.0	+10	360	3.0	+10	328	5.0								

Туре	19304D GSRS				, Missile	No.	106	3	, Round N		launched		
from	LC-3	3		on	29 August	1979	9	at_	1100 MDT	· [] (B)			
	POLE	#1	=	X485	,874.29	Y185	,958	3.90	H4018.74	38.	. 7	ft.	AGL
	POLE	#2	=	X485	,874.93	Y186	,012	2.00	H4033.57	7 53.	.0	ft.	AGL
	POLE	#3	=	X485	,877.29	Y186	,116	5.06	H4063.92	2 83	.6	ft.	AGL

NOTE: WIND DIRECTIONS ARE REFERENCED TRUE NORTH.

TABLE 3. LC-33 METEOROLOGICAL TOWER ANEMOMETER-MEASURED WINDS (202 FT. TOWER)

3-4 -31 L	EVEL #1 12 ft.			EVEL #2 62 ft.	X38018163 7310
T-TIME SEC	DIR	SPEED MPH	T-TIME SEC	DIR	SPEED MPH
-30	357	5.0	-30	332	5.0
-20	347	5.0	-20	337	6.0
-10	338	5.0	-10	344	6.0
0.0	351	4.0	0.0	340	4.0
+10	356	4.0	+10	340	4.0
ι	EVEL #3 102 ft.		1	EVEL #4 202 ft.	
T-TIME SEC	DIR	SPEED MPH	T-TIME SEC	DIR DEG	SPEED MPH
-30	352	6.0	-30	347	5.5
-20	347	6.0	-20	347	5.5
-10	352	5.5	-10	346	5.5
0.0	350	4.5	0.0	345	5.0
+10	354	4.0	+10	335	5.0

WTSM Coordinates: X484,982.64 Y185,957.73 H3983.00 (base)

Type $19304 \, \text{D}$ GSRS , Missile No. 1063 , Round No. V-67 launched from 1063 on 1063 at $1100 \, \text{MDT}$.

NOTE: WIND DIRECTIONS ARE REFERENCED TRUE NORTH.

PILOT BALLOON MEASURED WIND DATA

TABLE 4	
RELEASED FROM LC-33 DATE 29 August 1979 TIM	E 1107 MDT
RELEASE POINT COORDINATES (WSTM) X=486,037.24 Y=182.350.16	H=3,977.3
MISSILE TYPE 19304 D GSRS MISSILE NO. 1063 ROUND N	0. <u>v-67</u>
MISSILE LAUNCHED FROM LC-33 DATE 29 AUGUST 1979 TIME	1100 MDT
NOTE: WIND DIRECTIONS ARE REFERENCED TRUE NORTH.	
HETCHTS - METERS AGI	

HEIGHT AGI	DI RECTION DEGREES	SPEED MPH
SFC	310	01.0
60	310	01.0
120	324	03.0
180	326	05.0
240	327	07.5
300	350	09.0
360	006	12.0
420	013	14.0
480	009	11.0
540	002	08.0
600	357	06.0
660	355	05.5
720	353	. 04.5
780	352	03.0
840	349	01.5

HEIGHT AGL	DIRECTION DEGREES	SPEED MPH
900	359	00.5
960	083	00.5
1020	106	01.0
1080	101	01.5
1140	092	01.5
1200	085	01.5
1260	079	01.5
1320	073	01.5
1380	054	01.0
1440	032	01.5
1500	040	03.0
1560	052	08.0
1620	055	13.0
1680	053	10.5
1740	046	06.5

HE I GHT AGL	DIRECTION DEGREES	SPEED MPH
1800	021	03.0
1860	289	02.5
1920	261	06.0
1980	312	02.0
2040	050	05.0
2100	052	07.5
2160	052	08.5
2220	052	08.5
2280	049	08.0
2340	046	07.5
2400	044	07.0
00000	5 5 5 5 5 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	S. C. Million
17999	371199	
		S. W.

HEIGHT AGL	DIRECTION DEGREES	SPEED MPH
		88.0
		Continue Continue
		(N) 85-
	7 T. J. J. L.	
1000		
		3.3
		712

|--|

J2.48034 LAT DEG 106.42307 LON DEG

DATA	Rel. HUM. Percent	56.0	-		29.0		90.0	20.0	61.0	0.60	0.19	52.0	26.0	0.40	0.64	51.0	0.50	48.0	18.0	0.70	57.0	19.0							,									
LEVEL 160284 5	TEMPERATURE AIR DEWPOINT GREES CENTIGHADE	6.7	4.9	٤.	1.5	15.4	-5.1	-8.5	-12.3	4 -	30	9	24.	:	-		:	:	-	-37.4	65-	47.																
SIGNIFICANT 24100 S M R TABLE	TEMPE AIR DEGREES	28.0	23.6	20.4	18.2	11.5	# . #	•	0.9	2.4		-7.9	-8.5	-		18.	21.	è	N	33.	33	33	135.2	20	59.		-63.7	6	6	67.	:	:	9	9	:		6.64-	•
	GEOMETRIC ALTITUDE MSL FEET	.766	.006	909	100	1201.6		5.4689					- 12	1311.2				-	-	-			-						-	8.649.	3849.	4801.	6911.	192	888	3774.	9698.1	. / 07.
30 FEET MSL 10 HRS MST	PRESSURE MILLIBARS				7000		0	2	0 :	- 0	9 00	0	2	N	'n	0	0	N	9	0	0	7	0		*	9	0	9	15.0	9.	•	•	8.6	•	0.0	6	30.0	100
1000 1																																						

STATION ALTITUDE 3997.30 FEET MSL 29 AUG. 79 1000 HRS MST ASCENSION NO. 264

SIGNIFICANT LEVEL DATA 2410060284 S M R

TABLE 5 (CONT)

REL.HUM. PERCENT

GEODETIC COORDINATES 32.48034 LAT DEG 106.42307 LON DEG

TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE -45.5 PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET 20.0 88514.1 15.6 94018.1 11.0 101905.0

																																								100	
GEODETIC COOKDINATES 32-48034 LAT DEG		INDEX OF REFRACTION	1.000266	1.000266			1.000255	1.000249	1.000244				1.000226	1.000222	1.000219	1.000215	1.000211	1.000206	1.000203	1.000201	1.000199	1.000197	1.000194		1.000189	1.000186	1.000163	1.000160	7710001		1.000166	1.000158	1.000159	1.000153	1.000148		1.000145	1.000143	1.000140	1.000138	1.000135
6E0DETI		SPEED KNOTS	8.0	8.0	6.3	4.8	3.8	5.9	2.0	1.5	1.4	1.7	2.0	5.9	t · t	5.3	5.7	5.7	5.5	5.9	9.9	7.3	8.5	10.4	15.1	13.4		7.5	12.0	11.0	0.6	10.2	11.0	11.7	11.7	11.3	11.2	11.2	11.8	12.3	•
		WIND DATA DIRECTION S DEGREES(TN) K	0.09	0.09	51.7	37.8	74.4	13.5	16.7	358.4	337.9	328.5	358.7	23.5	28.0	57.9	55.0	32.7	45.0	1.09	73.0	89.1	101.9	112.0	118.4	122.3	150.7	151.7	1,77	143.0	154.1	108.7	177.8	179.2	178.9	177.1	177.6	177.7	177.2		179.9
ATA *		SPEED OF SOUND KNOTS	677.5	677.5	674.8	672.4	9.119	6.019	670.1	4.699	669.7	9.199	4.999	665.0	663.4	601.8	660.3	658.7	657.1	9.559	654.0	652.5	6.059	649.3	647.7	646.1	644.5	6.749	620.6	638.0	6,56,8	630.2	635.5	6.54.7	634.1	634.8	6.11.5	630.4	0.679	4.079	627.1
UPPER AJR DATA 2410060264 5 m r	TABLE 6	DENSITY GM/CUBIC METER	1010.2	10101	1000-8	990.5	975.5	1.096	940.1	931.7	917.5	h·+06	891.6	9.628	868.1	856.7	845.5	834.3	823.0	811.8	8.008	789.9	779.2	768.6	757.9	747.4	737.0	120.8	702.0	6969	86.	674.1	9.299	651.4	0.049	630.0	620.4	610.4	599.9	290.1	580.8
		REL.HUM. PERCENT	26.0	26.0	29.9	32.7	31.4	30.2	28.9	27.6	26.3	27.1	28.5	29.8	30.9	32.1	32.6	30.7	32.3	36.1	39.9	43.7	47.5	51.2	24.4	57.7	6.09	2.49	68.8	63.4	65.8	41.9	58.3	45.6	28.7	35.6	6.94	52.9	6.64		9.64
T MSL .		TEMPERATURE R DEWPOINT EES CENTIGRADE	6.7	6.7	6.7	6.2	5.1	0.4	2.8	1.7	• •	٠,	•••	5.5	-1:1	-1.8	-2.8	-4.7	-5.2	6.4-	9.4-	8.4-	-2.0	-5.2	-5.7	-6.2	1.9-	***		-11.3	-11.7	-17.5	-14.2	-17.7	-23.4	-21.9	-19.8	-19.3	-50.5	-21.5	-22.5
1000 HRS MST		TEMP AIR DEGREES	28.0	28.0	25.6	23.5	22.9	22.3	21.7	21.1	20.5	19.6	18.6	17.3	16.0	14.6	13.3	12.0	10.7	9.3	8.0	9.9	5.3	3.9	5.6	1.2	:	-1.0		-5.4	1.9-	-6.8	-7.5	-8.0		-9.5	-10.7	-11.6	-12.2	-13.2	-14.3
m 4		PRESSURE MILLIBARS	877.0	870.9	861.9		832.3		803.6	789.6	775.9	762.3	748.9	735.7	722.6	709.8	697.1	9.489	672.2		647.8	636.0		615.9	601.4	290.1	016/0	5,7,5	547.0	536.5	526.2	510.1	506.1	490.3	440.7	477.2	407.9	428.7		•	435.0
STATION ALTITUDE 29 Aug. 79		GEUMETHIC ALTITUDE MSL FEET	3997.3	•			5500.0		6500.0	•	7	800000		0.0006	9500.0	100000		11000.0		•		-	3500		•			16500.0				16500.0	•	19500.0						42500.0	<3000.0

				TABLE 6 (6 (CONT)		100	106-42307 LON DEG
PRESSURE	A	TEMPERATURE R DEWPOINT	REL.HUM. PERCENT	DENSITY GM/CUBIC	SPEED OF	DIRECTION S	SPEED	INDEX
MILLIBARS	DEGREES	CENTIGRADE		METER	KNOTS	DEGREES (TN)	KNOTS	REFRACTION
453.4	-15.3	-23.4	50.0	571.7	625.8	164.1	12.3	1.000133
415.0	-16.4	-24.3	50.3	562.7		190.1	12.8	1.000130
406.7	-17.5	-25.2	50.7	553.8		197.6	13.7	1.000128
398.6	-18.6	-26.0	51.9	545.2		203.9	15.2	1.000126
	-19.8	-26.0	57.5	536.6		209.5	16.54	1.000124
382.6	-21.0	-26.1	63.1	528.2		214.4	17.5	1.000122
374.8	-21.8	-27.4	60.2	519.5		216.1	16.9	1.000119
367.2	-22.5	-59.4	52.9	510.0		216.8	15.5	1.000117
359.6	-23.3	-31.7	45.7	501.3	612.9	210.5	13.9	1.000114
	-24.6	-34.5	39.1	493.4	614.3	515.9	12.2	1.000112
344.9	-25.9	-37.5	32.4	485.7	612.7	220.7	13.0	1.000110
337.7	-27.1	8.04-	25.7	478.1	611.1	225.3	14.2	1.000108
330.7	-28.4	L. ++-	19.1	470.6		250.0	16.5	1.000106
323.7	9.62-	-42.1	28.5	463.0		253.1	18.9	1.000104
316.9	-30.8	-39.7	6.04	455.5	6,606	232.5	20.7	1.000103
310.2	-32.1	-38.3	53.4	446.1		232.6	22.6	1.000101
303.6	-33.3	-37.4	62.9	8.044		255.6	25.2	1.000100
297.1	-33.7	-41.1	6.94	432.1		238.7	58.6	1.000097
290.7	-33.5	8.94-	24.5	452.5		243.0	34.1	1.000095
264.5	-34.0		12.8**	414.4	602.5	245.3	39.5	1.000093
278.4	-34.8	-61.5	#*9*	400+	601.5	545.9	6.44	1.000091
272.4	-35.8			399.7	600.2	246.3	48.6	1.000069
266.4	-37.0			393.1	598.0	4.947	52.1	1.000088
500.6	-38.3			386.6	597.0	247.3	54.1	1.000086
524.9	-39.6			380.2		6.842	54.9	1.000085
249.4	-40.8			373.9		250.4	9.45	1.000083
	-42.0			367.4		551.9	53.6	1.000082
238.2	-43.2			360.9		253.5	;	1.000080
232.8	t. tt-			354.6		255.0	55.3	1.000079
5.27.6	-45.6			348.4		255.9	56.1	1.000078
222.4	-46.8			345.4		252.2	56.8	1.000076
	-48.0			336.4		249.6	56.9	1.000075
	-49.5			330.6		247.6	57.0	1.000074
	-50.4			324.8		247.2	55.9	1.000072
	-51.6			319.2		249.3	53.9	1.000071
198.3	-52.8			313.6		250.0	53.5	1.000070
	1-65-			308.0		549.0	54.4	1.000069
	-55.3			302.4		0.647	53.6	1.000067
184.6	-50.6			297.0	573.3	7.647	51.4	1.000066
180.3	-57.9			291.7	571.0	C+43.	48.4	1.000065

.. AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE		1997.30 FEET MSL 1000 HRS MST	ET MSL MST		UPPER AIR DATA 24100-0264 S M R TABLE 6 (CONT	DATA 264 (CONT)		6E00ET1 32. 106.	GEODETIC COORDINATES 32-46034 LAT DEG 106-42307 LON DEG
SEUMETHIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AI	TEMPERATURE R DEWPOINT EES CENTIGRADE	REL.HUM. PERCENT	GM/CUBIC METER	SOUND NOTS	DIRECTION DEGREES(TN)	DATA SPEED	INUEX OF REFRACTION
43500.0	176.0	-59.1			286.5	570.0	249.8	44.2	1.000064
44000.0	171.8	-60.0			280.8	568.8	250.2	40.5	1.000063
	167.7	-60.2			274.4	568.5	2.042	38.6	1.000061
	163.7	9.09-			268.3	569.0	241.9	37.2	1.000060
	159.7	-61.5			262.8	560.8	238.6	35.5	1.000059
46500.0	152.1	-64-3			257.5	0000	250.4		1.000057
	148.3	-64.1			247.2	5000	255.5	29.0	1.000055
	144.7	6.49-			242.0	562.2	234.1		1.000054
	141-1	-65.7			236.9	561.2	237.5		1.000053
	137.6	-66.5			231.9	560.1	241.3		1.000052
•	134.2	-67.3			227.1	929.0	242.3	23.3	1.000051
	130.9	-68.1			222.3	557.9	243.5	55.6	1.000050
50500	127.0	6.89-			217.7	556.8	245.2	20.7	1.000048
	121.3	1.69-			207.6	2000	2000	6.01	1.00004
51500.0	118.3	-69.5			202.3	556.0	243.0	14.9	1.000045
52000.0	115.3	-69.5			197.3	556.0	238.4	13.3	1.000044
52500.0	112.4	-68.2			191.2	557.7	230.8	12.4	1.000043
	109.6	-68.8			186.9	556.9	222.1	12.0	1.000042
	106.9	-70.3			183.5	524.9	213.5	11.8	1.000041
	7.00	-71.3			179.8	555.6	211.5	10.5	1.000040
55000.0	0.00	-70.9			170.5	555.0	2000	8.5	1.000039
	96.5	-70.5			165.9	554.5	148.4	8	1.000037
	94.1	-70.2			161.5	555.0	179.5	8.2	1.000036
	41.7	6.69-			157.2	555.4	175.3	8.9	1.000035
	9.68	4.69-			152.9	550.0	171.7	9.6	1.000034
•	87.2	-68.5			148.5	557.3	170.0	10.3	1.000033
•	65.1	-67.6			144.2	5.00.5	108.0	11.0	1.000032
	83.0	-66.7			140.0	559.6	170-1	10.4	1.000031
•	6000	-65.8			130.0	501.0	177.3	8.1	1.000030
	26.61	9. 19-			132.1	564.3	6.681	9.0	1.000029
		-63.9			126.3	263.5	555.0	2.5	1.000029
0.0000	71.3	-625-0			124.6	264.1	315.5	31.0	1.000028
	2	200			0.171	000	******		1200001
0.0000	2.04	7.10-			11/02	201.6	****	0.0	1.000020
	1.19	2009-			7111	2000	75.5	7	5000001
0	66.5	-60.0			106.6	266.0	7.46	13.3	1.000024

STATION ALTI	TATION ALTITUDE 399 9 AUG. 79 1 SCENSION NO. 284	97.30 FEET MSL 1000 HRS MST		UPPER AIR DATA 2410060284 S M R TABLE 6 (CUNT)	R DATA 0284 (CUNT)		6E0DET1	GEODETIC COONDINATES 32.48034 LAT LEG 106.42307 LON DEG
SEOMETRIC ALTITUDE MSL FEET	PRESSURL MILLIBARS	TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	DIRECTION S DEGRESSIN) K	SPEED KNOTS	INDEX OF HEFRACTION
0.3500.0	6.49	-59.8		105.9	569.0	100.9	15.7	1.000024
0.00049	63.3	-59.7		103.3	569	116.5	18.0	.00002
0.00540	61.8	-59.5		100.8		123.7	20.8	1.000022
0.00000	60.3	-59.3		96.3		122.4	20.5	1.000022
-	58.9	-59.1		95.9		120.5	0	1.000021
	57.5	-58.9		93.5		118.1	19.5	1.000041
	50.1	-58.8		91.2		114.3	18.6	1.000020
	54.8	-58.6		88.9		110.2	17.9	1.000020
	53.5	-58.4		86.7		108.2	17.5	1.000019
68000.0	55.5	-58.2		9.48	571.1	107.8	17.5	1.000019
0.00580	51.0	-58.0		82.5	571.4	107.5	17.4	1.000018
0-00060	*6*	-57.9		80.5		104.7	17.0	1.000018
0.00569	48.	-57.6		78.5		102.1	16.6	1.000017
70000.0	47.	-57.4		76.6		9.66	16.8	1.000017
70500.0	7	-57.2		74.7	575.5	9.76	18.0	1.000017
71000.0		-57.0		72.9		7.96	19.1	1.000016
71500.0		-56.8		71.1		1.96	19.5	1.000016
72000.0	43.1	-56.6		69.3	575.3	90.5	19.6	1.000015
72500.0		-56.3		9.19		90.7	19.8	1.000015
73000.0		-56.1		0.09	573.9	96.3	20.3	1.000015
13500.0	*0	-55.9		64.3		0.06	20.8	1.000014
74000.0	39.	-55.6		62.7		90.5	21.4	1.000014
74500.0	38.	-55.1		61.1		1.96	25.5	
15000-0	37.	-24.6		9.66		9.66	23.1	1.000013
7.5500.0	90	1-24-1		28.1		101.7	23.0	
	200	-53.6		36.6		104.1	21.8	1.000013
77000	34.0	1.000		2000	277.9	6.707	100	1.000012
	34.3	55.1		מינים מינים		0.001	17.0	2100001
	32.5	-51.6		51.1		104.01	14.0	7100001
	31.7	-51.1		40.8		400.7	. 5	
	31.0	-50.6		48.5		87.6	16.8	1.000011
	30.3	-50.1	LINE THERE	47.3		9.08	18.8	1.000011
		6.64-		40.5		76.6	20.4	1.000010
	58.9	6.61-		45.1	564.1	74.0	22.1	1.000010
0.00019	28.5	6.64-		44.1	504.1	71.0	23.8	1.000010
61500.0	27.	6.64-		43.1	564.1	73.5	54.9	1.000010
85000.0	27.	6.64-		42.1		70.5	55.9	1.000009
0.500.0	70.0	6.64-		41.1		79.5	50.0	1.000009
0.00000	ċ	6.64-		7.04		1.70	28.0	1.000009

DETIC COOMDINATES 32-48034 LAT LEG 106-42307 LON DEG	INUEX OF REFRACTION	1.000009	1.000009	1.000008	1.000008	1.000008	1.000008	1.000008	1.000007	1.000007	1.000007	1.000067	1.000007	1.000007	100000	1.00006	900000	1.00000	1.000006	1.000006	1.000006	1.000006	1.000005	1.000005	1.000005	1.000005	1.000005	1.000005	1.000005	1.000005	1.000004	1.000004	1.000004	1.000004	1.000004	1.000004	1.000004	1.000004	1.000004
6E0DETIC 32.4	SPEED KNOTS	29.3	30.5	30.2	28.9	27.5	26.7	26.4	26.0	26.7	28.9	31.1	33.2	34.0	36.8	38.6	27.3	2:00	36.3	35.4	35.2	35.1	35.0	34.8	34.6	24.3	33.4	31.6	29.1	28.0	28.1	28.5	29.3	30.6	32.1	33.6			
	WIND DATA DIRECTION S DEGREES(TW) K	84.7	47.1	44.1	68.3	9.98	88.0	88.5	68.3	89.7	95.6	1.06	97.7	1.00.7	103.3	10501	0.00	C.001	111.4	114.4	116.0	117.4	118.7	119.4	119.7	119.9	119.7	118.4	117.0	115.0	108.6	102.2	7.06	93.4	91.7	7.06			
R LATA 0254 (CONT)	SPEED OF SOUND KNOTS	562.1	582.1	584.5	543.2	583.8	5H4.5	545.2	505.6	546.5	547.1	547.8	544.0	Sek. 1	200	500 A	2000	2000	284.8	589.0	589.5	589.4	9.689	589.7	590.3	590.8	591.4	994.0	594.5	593.1	593.6	594.2	594.8	5,565	595.9	590.4	597.0	597.5	598.1
UPPER AIR DATA 2410060284 5 M R TABLE 6 (CONT)	DENSITY S GM/CUBIC METER	39.3	38.4	37.4	36.5	35.6	34.7	33.0	33.0	32.2	31.4	30.6	29.9	20.0	28.6	27.0	27.7	20.00	26.7	26.0	25.4	54.9	24.3	23.7	23.5	22.6	22.1	51.6	21.0	20.5	20.1	19.6	19.1	18.7	18.2	17.8	17.4	17.0	16.6
	REL.HUM. PERCENT																																						
T MSL MST	TEMPERATURE R DEWPOINT EES CENTIGRADE																																						
7.30 FEET MSL .000 HRS MST	TEMP AIR DEGREES	6.64-	6.64-	9.64-	-49.1	-48.6	-48.0	-47.5	-47.0	-46.5	-46.0	-45.5	-45.4	-45.2	-44.1	-45.0	200		1.44-	2.44-	****	-44.3	-44.1	0.44-	-43.6	-43.1	-42.7	-42.3	-41.8	-41.4	-41.0	-40.5	-40.1	-39.6	-39.2	-38.8	-38.3	-37.9	-37.5
STATICN ALTITUDE 399 29 AUG: 79 1 ASCENSION NO. 284	PRESSURE MILLIBARS	25.2		24.0					21.4	20.9	20.5	20.0	19.6		18.7	18.3	12.0		17.5	17.1	10.7	16.3	16.0	15.6	15.3	74.9	14.0	•	14.0	13.7	13.4	13.1	12.8	12.5	12.2	12.0	11.7	11.4	11.2
STATION ALTIT 29 AUG: 79 ASCENSION NO.	GEOMETRIC ALTITUDE MSL FEET	83500·0	0.00040	04500.0	65000.0	45500.0			•	87500.0		-		-			0.000		0.00016		92500.0		-	-	•	•	95500.0	0.00096	96500.0	97000.0	97500.0	96000.0	96500.0	0.00066	99500.0	1000001	100500.0	101000.0	101500.0

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MANDATORY LEVELS 2410060264 S. M. R.	LE 7
AAN O	TABLE

GEODETIC COOMDINATES 32.44034 LAT DEG 106.42307 LON LEG

ATA	KNOTS	9.0	1.8	1.9	9.6	6.5		0130	11.4	11.8	14.9	14.2	20.5	24.7	53.1	43.4	30.9	19.0	9.0	7.3	7.5	20.5	17.1	20.8	19.4	29.5	30.9	34.4
WIND DATA	DEGREES(TN)	41.3	13.0	355.4	26.1	71.0									250.3		232.8	546.9	205.0	181.0		122.1						119.8
REL . HUM.		33.	29.	.69.	35.	39.	55.	.52	54.	50.	51.	37.	57.															
TEMPERATURE R DEWPOINT	CENTIGRADE	4.9	2.6	0:-	-2.3	8.4-	-5.7	-8.5	-16.0	-20.5	-26.0	-35.3	-39.3															
AIR	ES	23.6	21.6	18.6	13.6	8.2	2.4	-3.8	-7.9	-12.2	-18.4	-25.0	-33.8	-40.7	-52.4	-59.4	-63.7	4.69-	-71.0	-65.3	+.09-	-59.3	-57.9	-55.9	6.64-	6.64-	-45.5	-43.2
PRESSURE GEOPOTENTIAL	FEET	4897.	6626.	8452.	10376.	12404.	14551.	16835.	19284.	21952.	24873.	28101.	31711.	35865.	40724.	43512.	46651.	50269.	54631.	59013.	61711.	64871.	68631.	73260.	79356.	83267.	68096	94415.
PRESSURE 6	MILLIBARS	850.0	0.008	750.0	700.0	650.0	0.009	550.0	200.0	450.0	0.004	350.0	300.0	250.0	200.0	175.0	150.0	125.0	100.0	80.0	70.07	0.09	20.0	0.04	30.0	25.0	20.0	15.0